## 27pWB11

## J/ψ→e<sup>+</sup>e<sup>-</sup> Measurement in Cu+Cu Collisions at RHIC-PHENIX

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Measurement of heavy vector mesons in a di-electron channel has been considered to be one of the most promising probes for the early hot dense stages of high energy heavy ion collisions. The yields of heavy quarkonia are predicted to be suppressed in a deconfined quark gluon plasma due to the color Debye screening. However, the yields will be modified by other competing processes such as recombination, shadowing and heavy quark energy loss. Therefore systematic study of  $J/\psi$  production for several system sizes and energy densities is necessary to understand the production and suppression mechanism. In the RHIC RUN-5 in 2005, the PHENIX experiment measured Cu+Cu collisions at  $\sqrt{s_{NN}}$ =200 GeV and 62.4 GeV. The current status of  $J/\psi \rightarrow e^+e^-$  analysis in Cu+Cu collisions will be presented.